

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Amendments to the Claims:

1. – 13. (Cancelled)

14. (New) A seal structure of a fuel cell, said fuel cell including an MEA, a separator, a gas passage formed in said separator, a gas manifold formed in said separator, a connecting gas passage formed in said separator and between said gas passage and said gas manifold, a coolant passage formed in said separator, a coolant manifold formed in said separator, a connecting coolant passage formed in said separator and between said coolant passage and said coolant manifold, and a seal for preventing gas and/or coolant from leaking and defining a continuous seal line, said seal structure of a fuel cell comprising an interrupted back-up disposed at least one of said connecting gas passage and said connecting coolant passage, said back-up located on one side of said separator and a portion of seal line located on the other side of said separator being disposed such that said back-up and said portion of said seal line are overlapped with each other in a fuel cell stacking direction, characterized in that said back-up is formed in said separator and includes a rib having a convex and concave structure.

15. (New) A seal structure of a fuel cell according to claim 14, wherein said back-up is disposed at said connecting gas passage between said gas passage and said gas manifold.

16. (New) A seal structure of a fuel cell according to claim 14, wherein said back-up is disposed at said connecting coolant passage between said coolant passage and said coolant manifold.

17. (New) A seal structure of a fuel cell according to claim 14, wherein though said gas manifold and said coolant manifold differs in width to each other, said interrupted back-up and a portion of said seal line positioned in an extension of said interrupted back-up are disposed on a same straight line.

18. (New) A seal structure of a fuel cell according to claim 14, wherein said back-up is formed in said separator and includes a plurality of protrusions spaced from each other.

19. (New) A seal structure of a fuel cell according to claim 14, wherein said back-up is formed in said separator and includes a rib having a plurality of tunnels formed in said rib and spaced from each other.

20. (New) A seal structure of a fuel cell according to claim 14, wherein an entire portion of said back-up located between adjacent separators is formed in either one separator of the adjacent separators.

21. (New) A seal structure of a fuel cell according to claim 14, wherein a portion of said back-up located between adjacent separators is formed in one separator of the adjacent separators, and a remaining portion of said back-up located between adjacent separators is formed in the other separator of the adjacent separators.